Hsu, Yao-Chih

🌐 https://yao-chih.netlify.app/en
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ABOUT ME

I am proactive, diligent, and eager to learn, currently pursuing a master's degree in Statistics at National Dong Hwa University, with research interests in neural networks, machine learning, and time series analysis.

My research focuses on using neural networks for time series data to handle high-dimensional data and perform missing data imputation, particularly in cases of machine failure. I aim to expand this to spatial data and high-dimensional imputation techniques in the future.

I believe education is a lifelong journey of enlightenment. I aim to make learning enjoyable by simplifying complex concepts and showing students that "science is everywhere in daily life." My goal is to make mathematics relatable by connecting theories with real-world applications, transforming it into a tool for solving problems rather than just formulas.

EXPERIENCE

- **2025.02 - Now** — **Hualien Shou Feng Junior High School** — Part-Time Mathematics Teacher

- **2024.02 - Now** — **National Dong Hwa University**
  - Research assistant
  - Time series and spatial research
  - Operations data analysis assistant

- **2023.09 - 2025.01** — **Hualien Shou Feng Junior High School** — Remedial instruction, tutoring, weekend tutoring and teaching

EDUCATION

- **2024 - Now** — Master of Statistics, Department of Applied Mathematics — National Dong Hwa University
- **2021 - 2023** — Completed the Teacher Education Program — National Dong Hwa University
- **2019 - 2023** — Bachelor of Statistics, Department of Applied Mathematics — National Dong Hwa University

PROJECT

- **Parking model for the parking lot in Zhixue station** (Master's Course)
  https://github.com/Josh-test-lab/parking-lot-simulation

- **The Analysis of Characters in Dream of the Red Chamber** (Bachelor's Research Project)
  https://www.overleaf.com/read/ydbnnfkrhxjd#fc7a4a

- **Image Recognition Using Convolutional Neural Networks (CNN)** (Python)

- **Personal Website** https://yao-chih.netlify.app/en

INDIVIDUAL TRAITS

- Attention to Detail
- Logical Reasoning
- Responsibility
- Team Collaboration

EXPERTISE

- Mathematical Logic
- Data Processing
- Programming (Python & R)
- Student Education (have teacher certificate)

KEEP LEARNING

- Machine Learning
- Time Series
- Spatial Models
- Missing Data Imputation